QC ABSTRACT

NAME OF WORK: Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	61.37	10	10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-13-22** **Date: 13-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-13-22** **Date: 07-08-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-07-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-13-22** **Date: 13-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	09-07-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-13-22** **Date: 13-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.59	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.22	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-13-22** **Date: 11-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-07-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-13-22** **Date: 11-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-13-22** **Date: 11-07-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-07-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 09-07-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan .	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-13-22** **Date: 11-07-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-08-13-22** **Date: 25-07-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-07-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	22-07-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	153	203	12548	32.230	2568.6	2590.5	Not less than 1800Kg/m^3
2	402	153	199	12240	31.440	2568.7		
3	398	149	202	11979	31.554	2634.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Lab ID : **CP-2020-08-13-22** **Date: 25-07-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	150	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	151	200	
3	402	151	202	
4	400	150	203	
5	399	149	201	
6	403	149	200	
7	402	150	200	
8	402	152	203	
9	403	150	203	
10	403	150	200	
11	402	150	202	
12	404	151	203	
13	400	151	202	
14	400	149	200	
15	403	152	199	
16	403	153	202	
17	401	152	202	
18	400	152	202	
19	400	151	199	
20	401	152	202	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2020-08-13-22** **Date: 25-07-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	150	60134	263.2	4.4	4.4
2	402	151	60635	271.3	4.5	
3	402	151	60656	261.6	4.3	
4	400	150	60005	266.3	4.4	
5	399	149	59464	258.6	4.3	
6	403	149	60044	265.7	4.4	
7	402	150	60308	266.5	4.4	
8	402	152	61177	256.2	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-08-13-22 **Date: 01-08-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-07-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 27/07/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 21/07/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	21/07/2020	150.87 X 149.36 X 150.56	22535	**8.810**	284.3	12.6	12.7
2	PCC	M15	14/07/2020	21/07/2020	150.81 X 149.63 X 151.52	22565	**8.412**	287.2	12.7	
3	PCC	M15	14/07/2020	21/07/2020	151.93 X 151.63 X 149.94	23037	**8.240**	293.6	12.7	

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	11/08/2020	149.91 X 151.51 X 151.41	22713	**8.945**	399.0	17.6	17.5
2	PCC	M15	14/07/2020	11/08/2020	151.98 X 150.51 X 150.46	22875	**8.571**	398.5	17.4	
3	PCC	M15	14/07/2020	11/08/2020	150.19 X 149.98 X 151.25	22525	**8.517**	395.8	17.6	

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BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 21/07/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	21/07/2020	151.11 X 151.60 X 151.21	22908	**8.810**	286.0	12.5	12.5
2	PCC	M15	14/07/2020	21/07/2020	150.49 X 149.66 X 150.88	22522	**8.412**	291.9	13.0	
3	PCC	M15	14/07/2020	21/07/2020	149.68 X 150.46 X 150.75	22520	**8.240**	272.7	12.1	

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R KARTHIK RECHAN
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Quality Manager

CIVIL Pro Sig. Date. BANGALORE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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Lab ID : **CP-2020-08-13-22** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	11/08/2020	150.74 X 150.72 X 149.15	22719	8.945	408.3	18.0	17.6
2	PCC	M15	14/07/2020	11/08/2020	150.68 X 150.13 X 150.79	22622	8.571	398.6	17.6	
3	PCC	M15	14/07/2020	11/08/2020	150.05 X 149.09 X 149.94	22370	8.517	384.7	17.2	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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R KARTHIK RECHAN
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Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	21/07/2020	151.95 X 149.73 X 149.55	22752	8.810	275.7	12.1	12.4
2	PCC	M15	14/07/2020	21/07/2020	149.23 X 151.17 X 149.75	22559	8.412	285.4	12.6	
3	PCC	M15	14/07/2020	21/07/2020	149.50 X 149.57 X 149.65	22361	8.240	277.3	12.4	

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FOR CIVIL Pro.

CIVIL Pro Sig. Date. BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 11/08/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

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Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	11/08/2020	149.30 X 149.66 X 151.29	22343	8.945	385.1	17.2	17.4
2	PCC	M15	14/07/2020	11/08/2020	150.90 X 151.04 X 150.15	22791	8.571	407.2	17.9	
3	PCC	M15	14/07/2020	11/08/2020	151.46 X 151.98 X 150.02	23019	8.517	393.5	17.1	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-13-22** **Date: 21/07/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	21/07/2020	151.09 X 151.20 X 150.07	22844	8.810	278.3	12.2	12.6
2	PCC	M15	14/07/2020	21/07/2020	151.25 X 151.58 X 149.44	22927	8.412	295.6	12.9	
3	PCC	M15	14/07/2020	21/07/2020	151.01 X 150.55 X 150.69	22736	8.240	288.6	12.7	

Note:

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-13-22** **Date: 11/08/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.
Agency	:	Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/32/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	11/08/2020	151.63 X 150.48 X 150.14	22817	8.945	389.4	17.1	17.4
2	PCC	M15	14/07/2020	11/08/2020	149.77 X 149.62 X 149.71	22409	8.571	403.1	18.0	
3	PCC	M15	14/07/2020	11/08/2020	149.80 X 149.38 X 151.21	22378	8.517	382.0	17.1	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 21/07/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	21/07/2020	151.66 X 150.93 X 150.55	22890	8.810	292.5	12.8	12.4
2	PCC	M15	14/07/2020	21/07/2020	149.66 X 150.65 X 149.94	22547	8.412	270.9	12.0	
3	PCC	M15	14/07/2020	21/07/2020	150.89 X 149.19 X 150.54	22512	8.240	281.0	12.5	

Note:
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig Date BANGALORE

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-13-22** **Date: 11/08/2020**

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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing Missing Covering Slabs to Drains in ward No 11 Kuvempunagara Vidyaranyapura Sub division.

Agency : Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/32/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-07-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/07/2020	11/08/2020	150.31 X 151.26 X 151.07	22735	**8.945**	397.5	17.5	17.4
2	PCC	M15	14/07/2020	11/08/2020	150.66 X 150.23 X 149.34	22635	**8.571**	396.2	17.5	
3	PCC	M15	14/07/2020	11/08/2020	150.83 X 149.53 X 151.54	22553	**8.517**	387.7	17.2	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

To,

Date: 13-08-2020

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of "PROVIDING MISSING COVERING SLABS TO DRAINS IN WARD NO 11 KUVEMPUNAGARA VIDYARANYAPURA SUB DIVISION."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/32/2020-21

2. Job code: 011-20-000124

We are here with forwarding to Sri.Sambhashiva Reddy G, No:14, 6th Cross, 2nd Main, Manorayanapalya, R.T.Nagara, Bangalore-32. First and Final bill duly verified and certified that the Work is satisfactory and for a Gross Value of RS.26,68,342.00/-(RS. Twenty Six Lakhs Sixty Eight Thousand Three Hundred and Forty Two Only).

Thanking you,

Yours faithfully,

For Civil Pro

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro
Sig.
Date
BANGALORE

R KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO